



# 705 Stereo Receiver

Date of manufacture : Feb 92 - Oct 95

Please note that this document contains the text from the original product brochure, and some technical statements may now be out of date



The NAD 705 provides all the power and control you need and more. Developed from the successful 402 and 300 Series circuits, the 705 tuner section is further refined to produce a remarkably clear, stable signal with accurate tuning in 25 kHz steps, and the amplifier section has been uprated to 40 watts per channel into 8 ohms/90watts into 4 ohms. Also permits input selection, A/B speaker selection, "mute" and includes an NAD System remote control.

Soft Clipping and EDP circuits protect and enhance peak performance. Efficient tone controls and an exceptionally quiet phono pre-amp allow further listening pleasure.

**PRE-AMP SECTION**

**Phono input**

Input impedance <i>(R and C)</i>		47kΩ / 250pF
Input sensitivity, 1kHz	MM	2.5mV ref. 0.5V
Signal/Noise ratio <i>(A-weighted with cartridge connected)</i>	MM	76dB ref. 5mV
THD <i>(20Hz - 20kHz)</i>		<0.04%
RIAA response accuracy <i>(20Hz - 20kHz)</i>		±0.5dB

**Line level inputs**

Input impedance <i>(R and C)</i>		50kΩ / 200pF
Input sensitivity <i>(ref. 1W)</i>		180mV
Maximum input signal		>8V
Signal/Noise ratio <i>(A-weighted ref 1W)</i>		90dB
Frequency response <i>(20Hz - 20kHz)</i>		+0.5dB, -1dB

**Line level outputs**

Output impedance	Pre-amp	220Ω
	Tape	Source Z + 2kΩ
Maximum output level	Pre-amp	>8V
	Tape	>10V

**Tone controls**

Treble		±7dB at 10kHz
Bass		±10dB at 50Hz

**POWER AMP SECTION**

Continuous output power into 8Ω *		40W (16dBW)
Rated distortion <i>(THD 20Hz - 20kHz)</i>		0.03%
Clipping power <i>(maximum continuous power per channel)</i>		50W
IHF Dynamic headroom at 8Ω		+3.5dB
IHF dynamic power <i>(maximum short term power per channel)</i>	8Ω	90W (19.5dBW)
	4Ω	130W (21dBW)
	2Ω	160W (22dBW)
Damping factor <i>(ref. 8Ω, 50Hz)</i>		>60
Input impedance		20kΩ / 560pF
Input sensitivity <i>(for rated power into 8Ω)</i>		1V
Frequency response <i>(20Hz - 20kHz)</i>		±0.3dB
Signal/noise ratio	ref. 1W	100dB
	ref. rated power	116dB
THD <i>(20Hz - 20kHz)</i>		<0.03%

**FM TUNER SECTION**

Input sensitivity	Mono -30dB THD+N	10dBf (0.9μV/75Ω)
	Mono 50dB S/N	14dBf (1.4μV/75Ω)
	Stereo 50dB S/N	35dBf (15μV/75Ω)
	Stereo 60dB S/N	45dBf (50μV/75Ω)
Capture ratio <i>(45 - 65dBf)</i>		<1.6dB
AM rejection <i>(45 - 65dBf)</i>		>60dB
Selectivity		60dB
Image rejection		>80dB
I F rejection		>60dB
Harmonic distortion	Mono	0.15%
	Stereo	0.2%
Signal/Noise ratio	Mono	>82dB
	Stereo	>76dB
Frequency response ±0.5dB		30Hz - 15kHz
Channel separation at 1kHz		>35dB

**AM TUNER SECTION**

Usable sensitivity		5μV
Selectivity		30dB
Image rejection		45dB
I F rejection		35dB
Signal/Noise ratio		45dB
Harmonic distortion		0.5%
Remote		Yes
NAD Link		Yes

**PHYSICAL SPECIFICATIONS**

Dimensions (W x H x D)	420 x 105 x 318mm
Net weight	6.6kg
Shipping weight	7.6kg

\* Minimum power per chnnel, 20Hz - 20kHz, both channels driven with no more than rated distortion.

Dimensions are of unit's cabinet without attached feet; add up to 18mm for total height.

Dimension depth excludes terminals, sockets, controls and buttons.